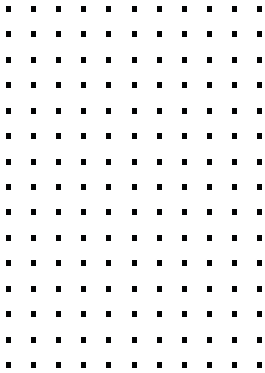


DATA SHEET

Fortinet Antennas

High-performing Indoor/Outdoor Antennas



Please note, this datasheet covers Fortinet’s legacy antenna portfolio.
For our new antenna portfolio please see:
<https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/fortinet-antennas.pdf>.

Product Offerings

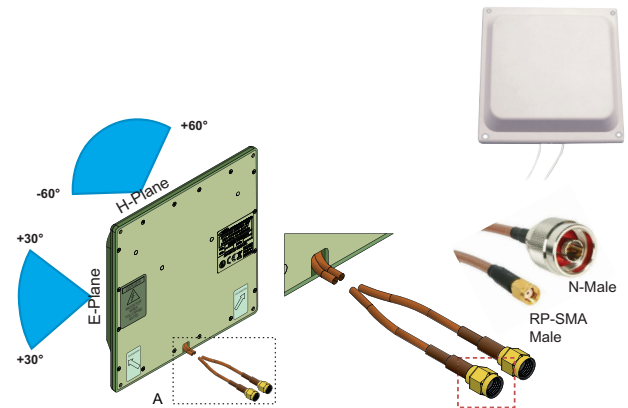
MODEL	ANTENNA TYPE	APPLICATION
FAN-612N	Sector/Patch	Outdoor
FAN-614R	Sector/Patch	Indoor
FAN-664R	Sector/Patch	Outdoor
ANT-06ABGN-0607-PT	Sector/Patch	Outdoor
ANT-A080-NM-2	Omnidirectional	Outdoor
ANT-BG080-NM	Omnidirectional	Outdoor
ANT-12ABGN-0304-O	Omnidirectional	Indoor/Ceiling



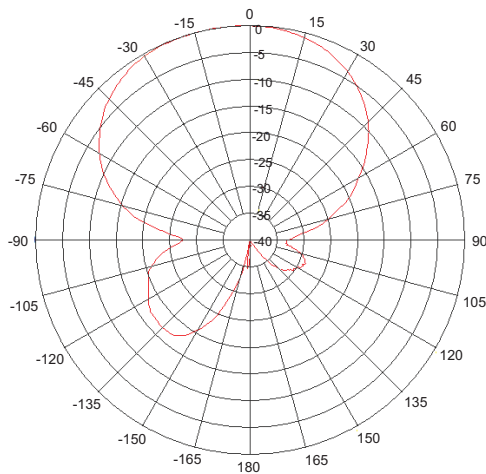
FEATURE HIGHLIGHTS

FortiAntenna 612N 120° Sector

FortiAntenna 612N is a dual-band two-element 120° sector antenna for use in 2×2 MIMO applications. The 612N offers N-Type connectors. The antenna provides coverage of 2.4–2.5 GHz and 4.9–5.9 GHz in a single antenna radome. The lightweight and durable construction and UV-protected radome made of plastic allow indoor and outdoor installation. This antenna is suitable for coverage of large rectangular areas like shopping centers, courtyards, and hallways.

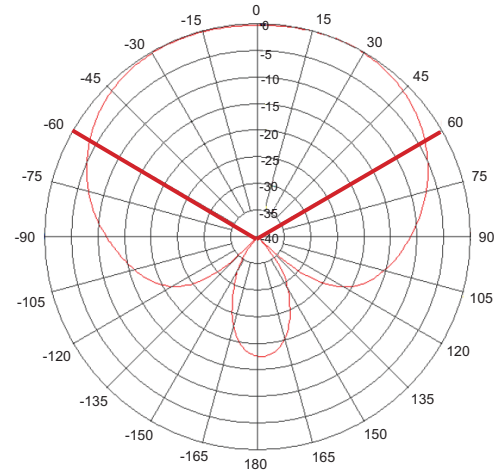


E-Plane Pattern

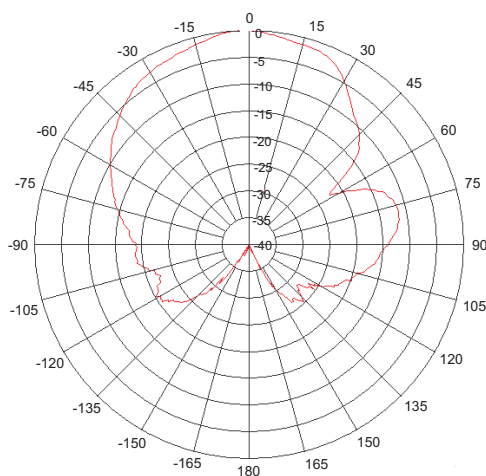


**Frequency
2500 MHz**

H-Plane Pattern

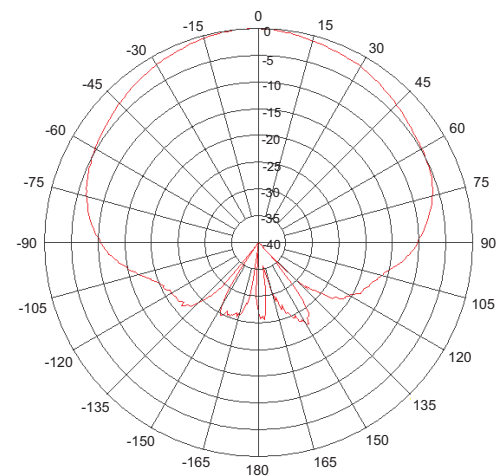


E-Plane Pattern



**Frequency
5500 MHz**

H-Plane Pattern



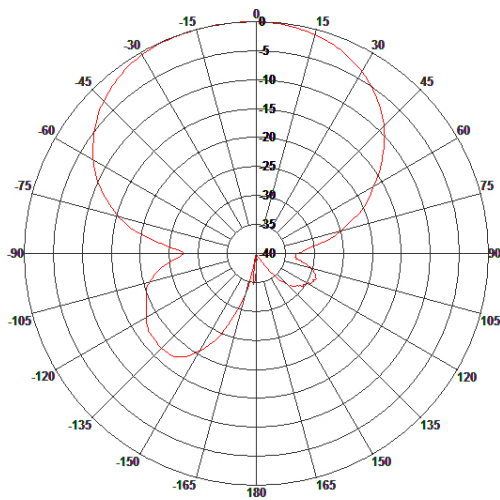
FEATURE HIGHLIGHTS

FortiAntenna 614R 120° Sector

FortiAntenna 614R is a sector 120° 5 dBi wall mount indoor 4×4 MIMO sector panel antenna that provides coverage of 2.3–2.7 GHz and 4.9–6.1 GHz in a single antenna radome. This antenna has four RP-SMA connectors attached to 1.2 meter cables.

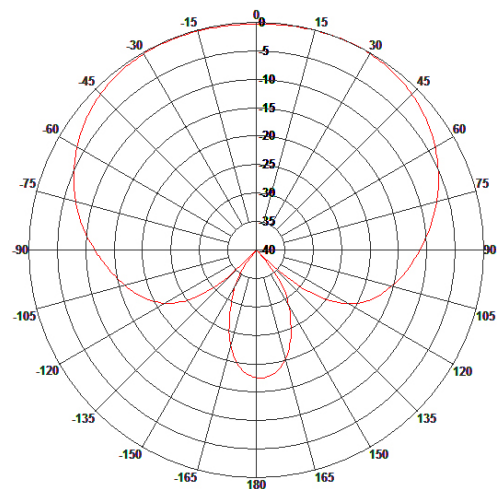


E-Plane Pattern

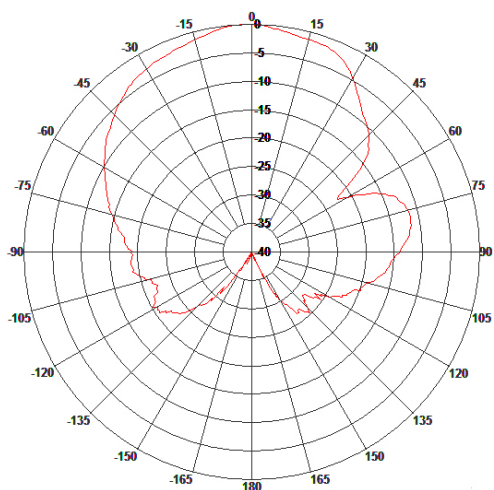


Frequency
2500 MHz

H-Plane Pattern

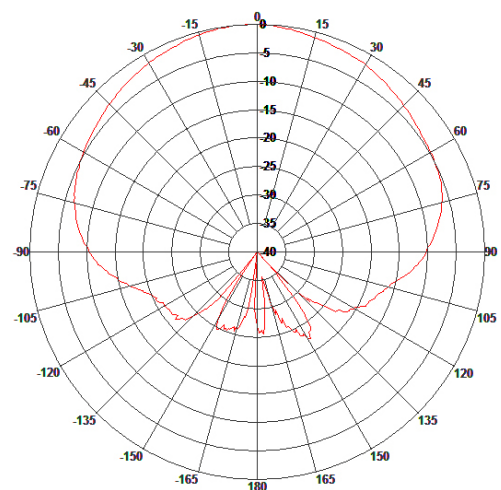


E-Plane Pattern



Frequency
5500 MHz

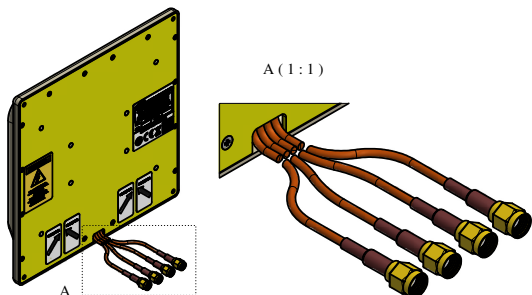
H-Plane Pattern



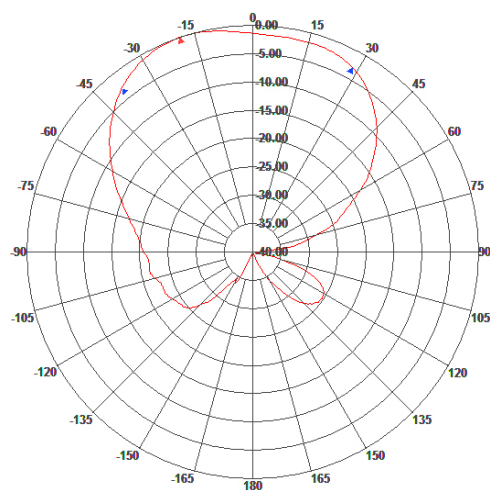
FEATURE HIGHLIGHTS

FortiAntenna 664R 60° Sector

FortiAntenna 664R is a 60° 8 dBi dual-band 4×4 MIMO sector panel antenna with four connectors that provide coverage of 2.4–2.5 GHz and 5.15–5.875 GHz in a single antenna radome. This antenna has four RP-SMA connectors attached to 75 cm cables.

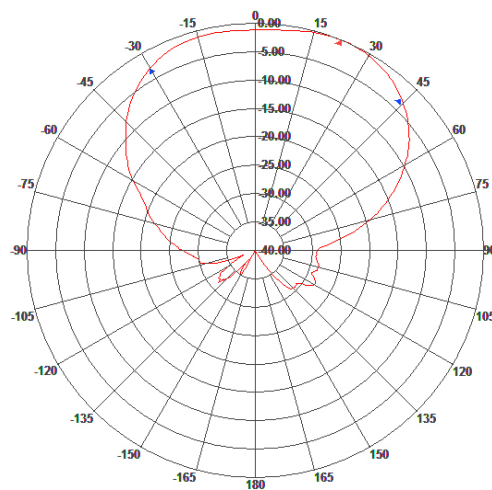


E-Plane Pattern

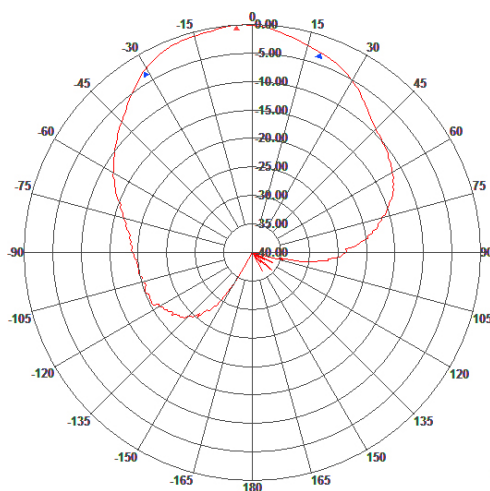


Frequency
2450 MHz

H-Plane Pattern

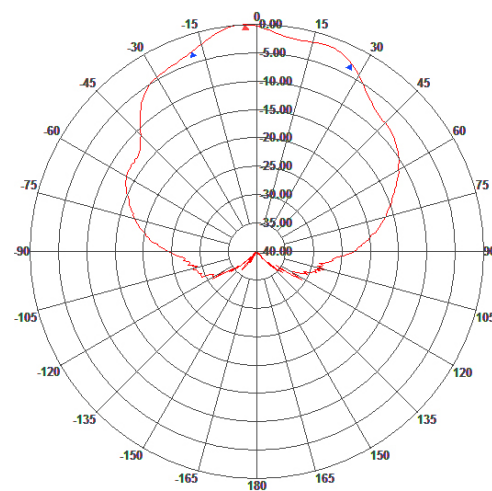


E-Plane Pattern



Frequency
5300 MHz

H-Plane Pattern

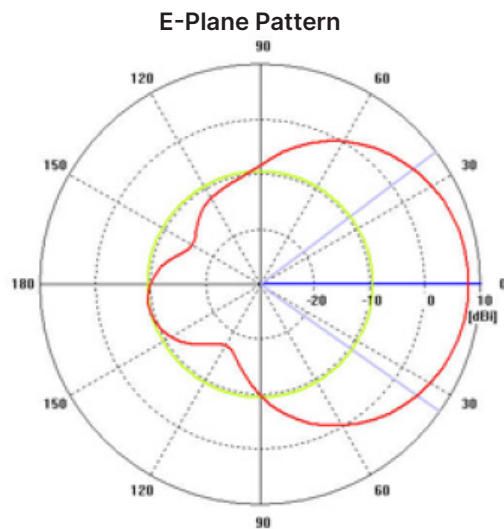


FEATURE HIGHLIGHTS

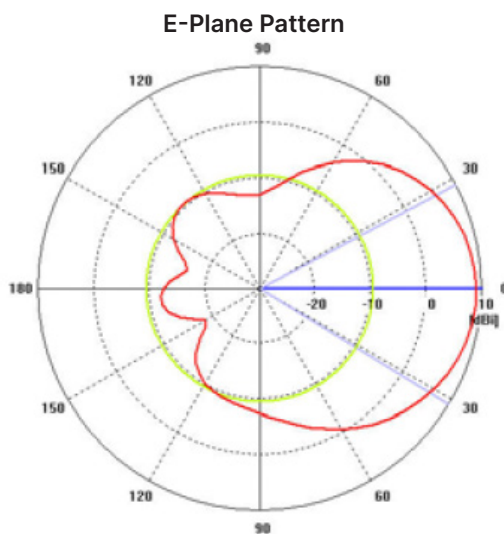
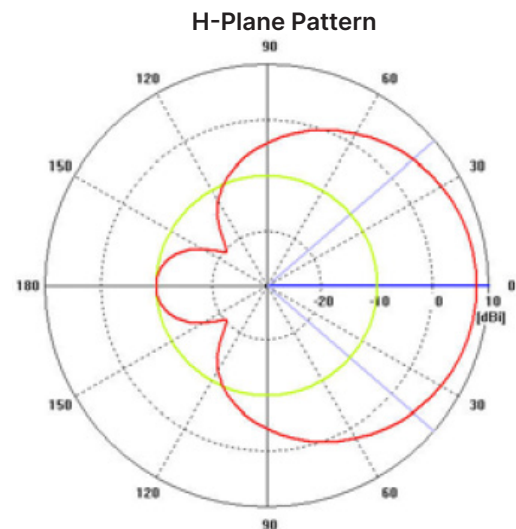
ANT-O6ABGN-0607-PT

Indoor and Outdoor MIMO Patch Antenna

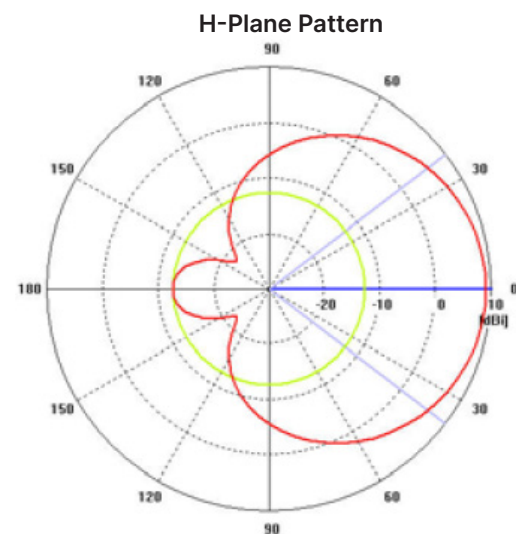
The ANT-O6ABGN-0607-PT is three integrated 2.4 GHz patch antennas and three integrated 5 GHz patch antennas in one enclosure. Housed in a low-profile radome, the antenna can be mounted to a wall or mast, indoors or outdoors. This antenna features six RP-SMA connectors with 36" pigtails.



Frequency
2.4 GHz



Frequency
5 GHz

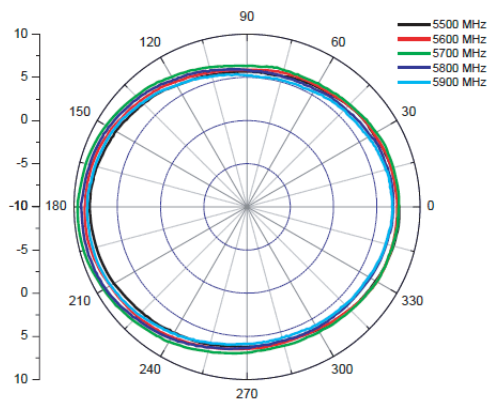


FEATURE HIGHLIGHTS

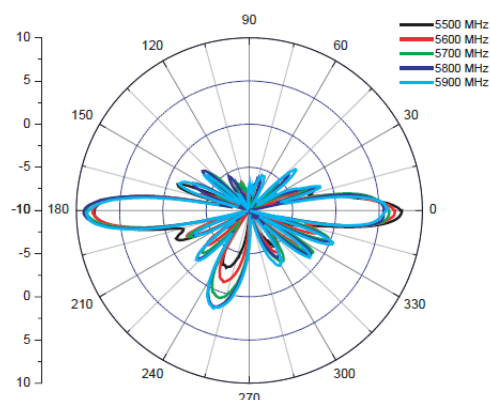
ANT-A080-NM-2

Omnidirectional Antenna for 5 GHz

This omnidirectional antenna provides 360° coverage for standard outdoor deployments.



H-Plane



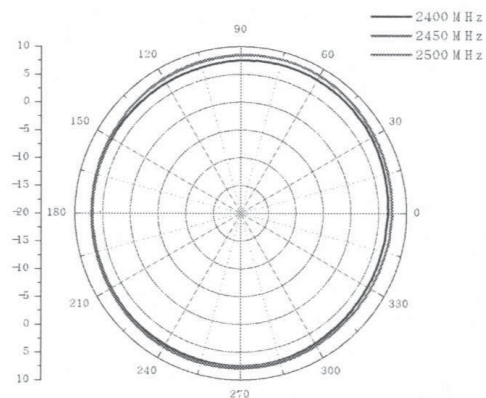
E-Plane



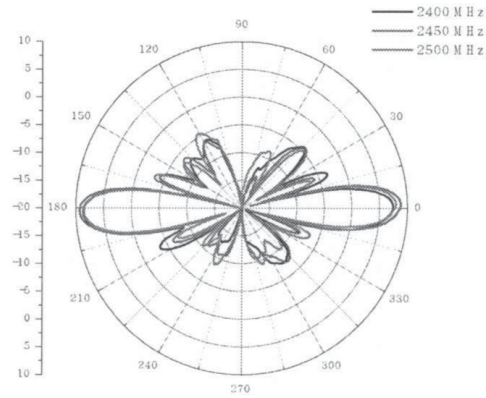
ANT-BG080-NM

Omnidirectional Antenna for 2.4 GHz

This omnidirectional pole-mounted antenna provides 360° coverage for standard outdoor deployments.



H-Plane



E-Plane



FEATURE HIGHLIGHTS

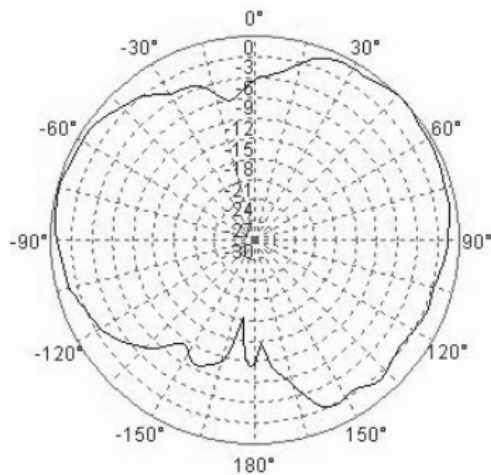
ANT-I2ABGN-0304-O

Ceiling-Mount Omnidirectional Antenna for Indoor Use

The ANT-I2ABGN-0304-O is a dual-band, ceiling-mount omnidirectional antenna, designed to operate indoors. The dual-band frequency coverage means that a single type of antenna can be deployed with any radio in the 2.4–2.5 GHz or 5.1–5.850 GHz bands. The two 36" plenum pigtails have RP-SMA connectors.

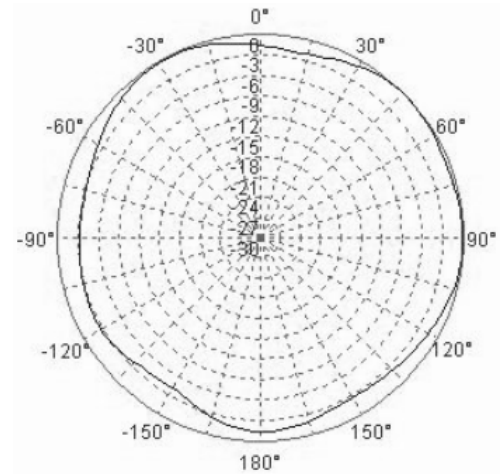


E-Plane Pattern

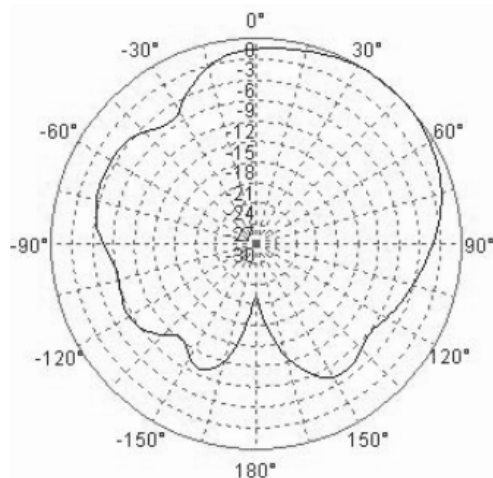


Frequency
2.4 GHz

H-Plane Pattern

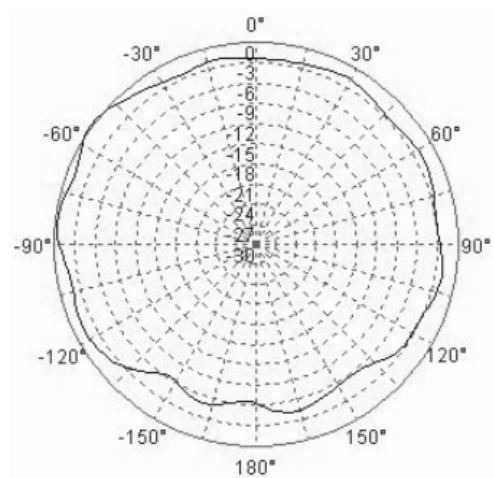


E-Plane Pattern



Frequency
5 GHz

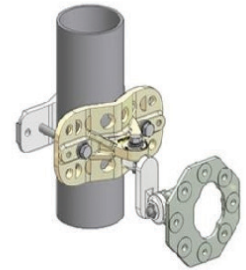
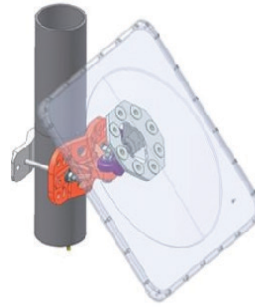
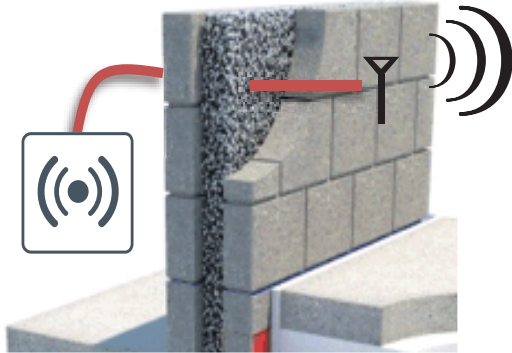
H-Plane Pattern



FEATURE HIGHLIGHTS

Mounting Hardware M22 and M22Z

FAN-M22 and FAN-M22Z-5 are versatile adjustable mounts. The M22 is intended for use with the N-type antennas such as the FortiAntenna 612N. The M22Z FortiAntenna mount works with RP-SMA antennas. The mount is made of die-cast aluminum, and suitable for pole and wall mounting.



SPECIFICATIONS

	FORTIANTENNA 612N	FORTIANTENNA 614R	FORTIANTENNA 664R
Electrical			
Type	Sector / Patch	Sector / Patch	Sector / Patch
Frequency Range	2.3-2.7 GHz & 4.9-6.1 GHz	2.3-2.7 GHz & 4.9-6.1 GHz	2.4-2.5 GHz & 5.15-5.875 GHz
Gain	5 dBi	5 dBi	6 dBi
Beam Width Horizontal	120°	120°	60°
Beam Width Vertical	70°	70°	60°
Maximum Input Power	20 Watt	20 Watt	20 Watt
Input Impedance	50 Ohm	50 Ohm	50 Ohm
VSWR	1.5 : 1 Typical	1.5 : 1 Typical	2.0 : 1 Max
Polarization	Dual Slant +/- 45°	Dual Slant +/- 45°	Dual Slant +/- 45°
Mechanical			
Dimension (Height x Width x Diameter)	200 × 200 × 33 mm (7.9" x 7.9" x 1.25")	200 × 200 × 33 mm (7.9" x 7.9" x 1.25")	200 × 200 × 33 mm (7.9" x 7.9" x 1.25")
Number of Connectors	2	4	4
Connector Type	N-Type Male	RP-SMA Male	RP-SMA Male
Cable Length	1.2 m (3.9 ft)	1.2 m (3.9 ft)	0.75m (2.46 ft)
Weight	400 grams (0.88 lbs)	260 grams (0.57 lbs)	260 grams (0.57 lbs)
Mount	Wall (pole mount with optional FAN-M22)	Wall (pole mount with optional FAN-M22Z-5)	Wall (pole mount with optional FAN-M22Z-5)
Radome	UV Protected Polycarbonate	UV Protected Polycarbonate	UV Protected Polycarbonate
Environmental			
Operating and Storage Temperature Range	-40 –158°F (-40 –70°C)	-40 –158°F (-40 –70°C)	-40 –158°F (-40 –70°C)
Wind Load	N/A	N/A	220 km/h
Water Proof Rating	IP67	N/A	IP67
Vibration	According to IEC 60721-3-4	According to IEC 60721-3-4	According to IEC 60721-3-4
Flammability	UL94	UL94	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)	ETS 300 019-1-4, EN 302 085 (annex A.1.1)	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Warranty			
Standard Warranty	1 year	1 year	1 year



SPECIFICATIONS

	ANT-O6ABGN-0607-PT	ANT-I2ABGN-0304-O	ANT-A08O-NM-2	ANT-BG08O-NM
Electrical				
Type	Sector / Patch	Omnidirectional	Omnidirectional	Omnidirectional
Frequency Range	2.4-2.5 GHz & 5.1-5.85 GHz	2.4-2.5 GHz & 5.1-5.85 GHz	5.47 –5.875 GHz	2.4 –2.5 GHz
Gain	6 dBi @2.4GHz, 7 dBi @ 5GHz	3 dBi @2.4GHz, 4 dBi @ 5GHz	8.0 dBi	8.0 dBi
Beam Width Horizontal	82° @ 2.4 GHz, 75° @ 5GHz	360°	360°	360°
Beam Width Vertical	72° @ 2.4 GHz, 60° @ 5GHz	100°	12°	15°
Maximum Input Power	50 Watt	2 Watt	5 Watt	2 Watt
Input Impedance	50 Ohm	50 Ohm	50 Ohm	50 Ohm
VSWR	1.5 : 1 Typical @ 2.4GHz, 2.0 : 1 Typical @ 5GHz	2.0 : 1 Typical	2.0 : 1 Max	2.0 : 1 Max
Polarization	Vertical	Vertical	Linear, vertical	Linear, vertical
Mechanical				
Dimension (Height x Width x Diameter)	444.5 × 154.9 × 25.4 mm (17.5" 6.1" x 1.0")	73.7 × 137.2 × 25.4 mm (2.9" x 5.4" x 1.0")	22 × 22 × 325 mm (0.87" x 0.87" x 12.8")	21 × 21 × 580 mm (0.83" x 0.83" x 22.8")
Number of Connectors	6	2	1	1
Connector Type	RP-SMA Male	RP-SMA Male	N-Type Male	N-Type Male
Cable Length	0.91 m (3 ft)	0.91 m (3 ft)	N/A	N/A
Weight	861 grams (1.9 lbs)	177 grams (0.39 lbs)	110 grams (0.24 lbs)	164 grams (0.36 lbs)
Mount	Wall or Pole Mount	Ceiling mount	N/A	N/A
Radome	Polycarbonate	Polycarbonate	UV Resistant Fiberglass	Fiberglass
Environmental				
Operating and Storage Temperature Range	-22 –158°F (-30 –70°C)	-40 –158°F (-40 –70°C)	-40 –176°F (-40 –80°C)	-40 –176°F (-40 –80°C)
Wind Load	134 mph	N/A	N/A	N/A
Water Proof Rating	N/A	N/A	N/A	N/A
Vibration	N/A	N/A	N/A	N/A
Flammability	N/A	N/A	N/A	N/A
Humidity	N/A	N/A	95% @ 55°C	95% @ 55°C
Warranty				
Standard Warranty	1 year	1 year	1 year	1 year


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ORDER INFORMATION

PRODUCT	SKU	DESCRIPTION
Fortinet Antennas	FAN-612N	Directional 120° 5 dBi dual-band outdoor panel antenna. Includes two 120cm cables with N connectors.
	FAN-614R	Directional 120° 5 dBi wall-mount outdoor 4×4 MIMO sector panel antenna. Includes 4× 1.2 m cables with RP-SMA connectors.
	FAN-664R	60° 6 dBi dual-band 4×4 MIMO sector panel antenna. Includes 75 cm cables with RP-SMA connectors. Purchase FAN-M22 wall/pole mount kit separately.
	ANT-I2ABGN-0304-O	Dual-band 2×2 MIMO ceiling-mount antenna for 3 dBi at 2.4 GHz, 4 dBi at 5 GHz. Two RP-SMA plug connectors with 18 inch / 45 cm cable.
	ANT-O6ABGN-0607-PT	Dual Band Patch 6-lead Antenna for MIMO Applications. Features three integrated 2.4 GHz patch antennas and three integrated 5 GHz patch antennas. 6 dBi at 2.4 GHz, 7 dBi at 5 GHz.
	ANT-A08O-NM-2	8 dBi Omnidirectional Antenna, 5470–5875 MHz (N-Male).
	ANT-BG080-NM	8 dBi Omnidirectional Antenna 2400–2500 MHz (N-Male).
Antenna Mount	FAN-M22	Pole/wall mount kit for FortiAntenna 612N.
	FAN-M22Z-5	Pole/wall mount kit for FortiAntenna 614R, 664R (5-pack)


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